

Claims

1. A method for backup of Home Location Register (HLR), comprising: configuring a universal HLR as a disaster recovery center HLR which is used to backup multiple HLRs, then establishing network connections between each operating active HLR and said disaster recovery center HLR, and then loading subscriber data of each active HLR to said disaster recovery center HLR through uniform text files which describe standard services of the protocol in a standard format;

During normal operation, synchronizing varied data of said active HLRs to said disaster recovery center HLR;

If an active HLR fails, forwarding the signaling which is sent to said fault active HLR to the disaster recovery center HLR to process through modifying route configuration of the corresponding service switching point;

recovering the data of said active HLR by said disaster recovery center HLR through uniform text files after said active HLR recovers, redirecting the signaling to said active HLR from said disaster recovery center HLR through modifying route configuration of the corresponding service switching point after the data of said active HLR and disaster recovery center HLR is consistent.

2. A method for backup of HLR according to claim 1, wherein each of said uniform text files contains a special field for recording the unique service in the internal format of the corresponding active HLRs.

3. A method for backup of HLR according to claim 1, wherein configure each disaster recovery center HLR and each operating active HLR with a communication device responsible for

external communication, respectively, the communication device of each active HLR is designed to convert varied subscriber data into uniform text files and store said files under the specified directory of each active HLR, the communication device of the disaster recover center HLR is designed to record IP addresses of said active HLRs through configuration files and obtaining said files of varied subscriber data from said specified directory periodically.

4. A method for backup of HLR according to claim 1 or 3, wherein said uniform text files are stored in fixed length and transmitted between the disaster recovery center HLR and the active HLRs through File Transfer Protocol.

5. A method for backup of HLR according to claim 1, wherein synchronizing the varied data of said active HLRs to said disaster recovery center HLR is implemented by transferring varied subscriber data with the format of uniform text files.

6. A method for backup of HLR according to claim 1, wherein said modification of route configuration of the corresponding service switching points refers to automatic or manual signaling switching with different configuration method.

7. A method for backup of HLR according to claim 1, wherein said operating active HLRs and said disaster recovery center HLR are connected by private lines.